

“

We Create



From the Nature,

For the Nature.”



Professor To NGAI

Founder, Director cum Chief Scientific Advisor
O-Spheres Limited

About Us

Founded in January 2022, O-Spheres Limited offers tailor-made preparatory methods to manufacture sophisticated polymer free hollow microspheres (HS) with precisely controlled physical properties, such as size, shell thickness, permeability, mechanical strength, and biocompatibility, which could be developed into customised eco-friendly alternatives in different industries.

Our Mission

With our science-informed and evidence-based innovative eco-HS technology, we are committed to upholding the values of the UN's "Sustainable Development Goals (SDGs)", aiming to alleviate various environmental challenges through innovation.



Next Generation Eco-Physical UV Filters for Sunscreen

Read more



Contact Us

✉ info@o-spheres.com

🌐 o-spheres.com

Find us on

🌐 O-Spheres

📺 O-SpheresLimited

Unit 1017-22, 10/F, Building 19W, No. 19 Science Park West Avenue,
Hong Kong Science Park, Pak Shek Kok, N.T., Hong Kong China



We engineer hollow spheres to build a greener globe.

Why Choose



- ✔ Pure inorganic and polymer FREE to avoid microplastics problem
- ✔ Enhanced UV scattering power hence reducing TiO₂ amount
- ✔ Improved UVA & UVB protection
- ✔ Better texture & skin feeling
- ✔ Avoid white masks



O-Spheres SunBlocker Awarded
Silver Medal
 at International Exhibition of
 Inventions Geneva 2023

Market Pain Points of Conventional UV Filters

Physical filters (e.g. TiO₂, ZnO) - Reflecting & scattering UV rays



Higher cost



Thicker in texture
 Leaving unwanted white masks

Chemical filters (e.g. oxybenzone) - Absorbing UV Rays



Skin irritation



Hormone disruption



Reef-unfriendly
 Banned in Hawaii and Palau

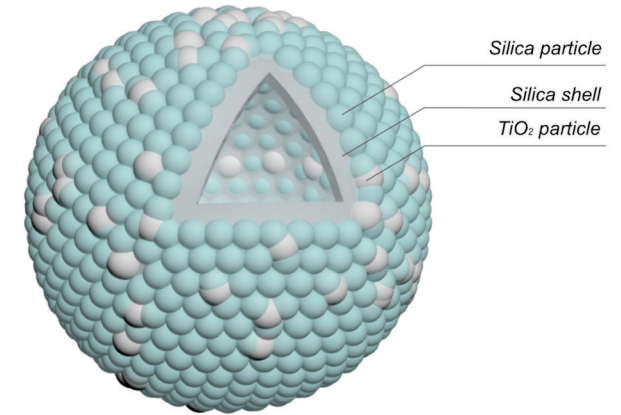
Hollow **polymer-based** spheres
 as additives also leading to
microplastics pollution



was proven **coral-friendly***
 in a recent study conducted
 by **CUHK Coral Academy**

*Preliminary data demonstrated that Titanium dioxide in O-Spheres SunBlocker do not have significant effects on the fertilisation success, embryonic development, and larval survival of A. tumida under laboratory conditions.

Core Technology Hollow Microspheres



Adjustable Size Range

From several hundred nanometers to tens of microns



Scalable

From lab-scale to pilot-scale



Compatible

Compatible with various personal skin care formulations



Highly Customised

Transferable to different materials on demand as eco-friendly alternatives in different industries